

STIC Search

File 2:INSPEC 1969-2004/Apr W3
 File 6:NTIS 1964-2004/Apr W4
 File 8:Ei Compendex(R) 1970-2004/Apr W3
 File 63:Transport Res(TRIS) 1970-2004/Mar
 File 65:Inside Conferences 1993-2004/Apr W4
 File 81:MIRA - Motor Industry Research 2001-2004/Mar
 File 94:JICST-EPlus 1985-2004/Apr W2
 File 95:TEME-Technology & Management 1989-2004/Apr W2
 File 96:FLUIDEX 1972-2004/Apr
 File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Mar
 File 34:SciSearch(R) Cited Ref Sci 1990-2004/Apr W3
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 File 103:Energy SciTec 1974-2004/Apr B1
 File 144:Pascal 1973-2004/Apr W3
 File 266:FEDRIP 2004/Feb

Set	Items	Description
S1	280427	VALVE OR VALVES
S2	518196	ENGINE? ?
S3	125333	INTERNAL() COMBUSTION() ENGINE? ?
S4	4442	AIR() COMPRESSOR? ?
S5	1209285	ROTOR? ? OR ROTARY OR ROTAT?
S6	590857	RECIPRO? OR AXIAL?
S7	100	BALLNUT? ? OR BALL()NUT? ?
S8	18	CAMLESS() VALVE? ?
S9	2412	BALL() SCREW? ? OR BALLSCREW? ?
S10	5525	ENGINE() CYLINDER? ?
S11	868	S1(S) S5(S) S6
S12	180	S3 AND S11
S13	25335	S5(5N) S6
S14	301	S1(S) S13
S15	66	S3 AND S14
S16	0	S7 AND S14
S17	763671	CONVERT???
S18	109	S5(3N) S17(3N) S6
S19	11	S1(S) S18
S20	2	S19 AND S3
S21	2	RD (unique items)
S22	4	S19 AND S2
S23	2	S22 NOT S20
S24	0	(S19 AND S4) NOT (S20 OR S22)
S25	0	S11 AND S7
S26	0	S1 AND S5 AND S6 AND S7
S27	0	S8 AND S9 AND S10
S28	38	S5(S) S6(S) S17(S) S1
S29	4	(S28 AND S3) NOT (S20 OR S22)
S30	3	RD (unique items)
S31	4	(S28 AND (S2 OR S4)) NOT (S20 OR S22 OR S29)
S32	4	RD (unique items)

21/7,K/1 (Item 1 from file: 103)

DIALOG(R) File 103:Energy SciTec

(c) 2004 Contains copyrighted material. All rts. reserv.

02353831 NOV-89-059095; EDB-89-099802

Author(s): Bunk, P.H.

Title: Rotary valve internal combustion engine

Patent No.: US 4815428

Serial 09/732282

April 28, 2004

File 624:McGraw-Hill Publications 1985-2004/Apr 27
 File 9:Business & Industry(R) Jul/1994-2004/Apr 27
 File 20:Dialog Global Reporter 1997-2004/Apr 28
 File 481:DELPHES Eur Bus 95-2004/Apr W2
 File 587:Jane`s Defense&Aerospace 2004/Apr W4
 File 635:Business Dateline(R) 1985-2004/Apr 27
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Apr 28
 File 15:ABI/Inform(R) 1971-2004/Apr 27
 File 553:Wilson Bus. Abs. FullText 1982-2004/Apr

Set	Items	Description
S1	90571	VALVE OR VALVES
S2	748202	ENGINE? ?
S3	10488	INTERNAL() COMBUSTION() ENGINE? ?
S4	4379	AIR() COMPRESSOR? ?
S5	215944	ROTOR? ? OR ROTARY OR ROTAT?
S6	85994	RECIPRO? OR AXIAL?
S7	57	BALLNUT? ? OR BALL()NUT? ?
S8	9	CAMLESS() VALVE? ?
S9	1058	BALL() SCREW? ? OR BALLSCREW? ?
S10	588	ENGINE() CYLINDER? ?
S11	31	S5 (7N) S6 (S) S1
S12	2	S3 (S) S11
S13	2	RD (unique items)
S14	9	(S11(S) (S2 OR S4)) NOT S12
S15	7	RD (unique items)
S16	2	S15/2001:2004
S17	5	S15 NOT S16
S18	0	S1 (S) S7 (S) S5 (S) S6
S19	0	S8 (S) S9 (S) S10

13/6/2 (Item 2 from file: 15)

01177099 98-26494

USE FORMAT 9 FOR FULL TEXT

Technology advancements in hearing protection circa 1995: Active noise reduction, frequency/amplitude-sensitivity and uniform attenuation

Feb 1996 LENGTH: 11 Pages

WORD COUNT: 8488

17/9/2 (Item 1 from file: 636)

DIALOG(R) File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

01385922 Supplier Number: 41749085 (THIS IS THE FULLTEXT)

R&D Notes: Machinery and Structural Analysis

Navy News & Undersea Technology, v7, n50, pN/A

Dec 24, 1990

ISSN: 8756-1700

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 307

TEXT:

The Naval Facilities Contracts Office is ready to fund a variety of studies in the areas of machinery diagnostics, computational mechanics, nonlinear structural analysis, near-shore cable installation technology, solutions to nonlinear differential equations, identification of functions for nonlinear systems and arctic geo-technology. In the area of machinery diagnostics the objective of the machinery structural study will be to conduct basic structural acoustics research to identify machine fault conditions by

File 16:Gale Group PROMT(R) 1990-2004/Apr 28
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2004/Apr 28
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Apr 27
File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Apr 28
File 649:Gale Group Newswire ASAP(TM) 2004/Apr 27

Set	Items	Description
S1	141807	VALVE OR VALVES
S2	854003	ENGINE? ?
S3	20385	INTERNAL() COMBUSTION() ENGINE? ?
S4	7696	AIR() COMPRESSOR? ?
S5	238686	ROTOR? ? OR ROTARY OR ROTAT?
S6	63684	RECIPRO? OR AXIAL?
S7	203	BALLNUT? ? OR BALL()NUT? ?
S8	10	CAMLESS() VALVE? ?
S9	3721	BALL() SCREW? ? OR BALLSCREW? ?
S10	1192	ENGINE() CYLINDER? ?
S11	16997	PC=3519
S12	27142	PC=351
S13	11900	PC=3494
S14	105	S1(S) S5(7N) S6
S15	0	S3(S) S14
S16	27	(S2 OR S4) (S) S14
S17	1	S11:S13 AND S16
S18	26	S16 NOT S17
S19	22	RD (unique items)
S20	0	S19/2001:2004
S21	22	Sort S19/ALL/PD,A
S22	4	(S14 AND S11:S13) NOT S16
S23	3	RD (unique items)
S24	0	S1(S) S5(S) S6(S) S7
S25	0	S8(S) S9(S) S10

17/3,AB,K/1 (Item 1 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.
08695365 SUPPLIER NUMBER: 18305140 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The engine testing process at Chrysler. (Chrysler Corp.)
Jost, Kevin
Automotive Engineering, v104, n3, p63(4)
March, 1996
ISSN: 0098-2571 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2393 LINE COUNT: 00199
ABSTRACT: Chrysler Corp. is relying on traditional testing concepts in designing a new 2.7-L V6 **engine** for the 1998 Dodge Interpid/Chrysler Concorde successor. These concepts involve performance and mechanical durability/development tests that allow Chrysler engineers to make reliable calibrations and test the durability of various **engine** components, such as manifolds, crankshafts, cylinder blocks and pistons. All tests are carried out from the design stage up to the production stage.
... 800 hours at WOT, which is equivalent to customer operation for 160,000 km. The **engine** -speed range for the cycle is **engine** specific; for the 2.7-L V6, it is 2400-6000 rpm. For this program, **engines** completing the first 800 h will be taken apart, rebuilt, and run through another 800...
...h test is a good predictor of **rotating** and **reciprocating** component

File 2:INSPEC 1969-2004/Apr W3
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File 65:Inside Conferences 1993-2004/Apr W4
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File 95:TEME-Technology & Management 1989-2004/Apr W2
File 96:FLUIDEX 1972-2004/Apr
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Mar
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Apr W3
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 103:Energy SciTec 1974-2004/Apr B1
File 266:FEDRIP 2004/Feb
File 144:Pascal 1973-2004/Apr W3

Set	Items	Description
S1	2378553	LINEAR? OR LINEAL?
S2	280431	VALVE OR VALVES
S3	518199	ENGINE? ?
S4	125333	INTERNAL() COMBUSTION() ENGINE? ?
S5	4442	AIR() COMPRESSOR? ?
S6	1209293	ROTOR? ? OR ROTARY OR ROTAT?
S7	590858	RECIPRO? OR AXIAL?
S8	100	BALLNUT? ? OR BALL()NUT? ?
S9	18	CAMLESS() VALVE? ?
S10	2412	BALL() SCREW? ? OR BALLSCREW? ?
S11	5525	ENGINE() CYLINDER? ?
S12	191	S2(S) S6(7N) S1 NOT S7
S13	7	S12(S) S3:S5
S14	7	RD (unique items)
S15	0	S14/2001:2004
S16	18	S2:S4 AND S9
S17	15	S3:S5 AND S9
S18	8	RD (unique items)
S19	8	S18 NOT S13

14/6/2 (Item 1 from file: 6)
0142675 NTIS Accession Number: AD-666 796/XAB
Investigation of Coordinated Free Turbine Engine Control Systems for
Multiengine Helicopters
(Final rept. 2 Dec 66-15 Jul 67)
Dec 67

14/6/3 (Item 1 from file: 8)
01574761
Title: AUTOMOTIVE CONTROL ACTUATORS: AN OVERVIEW.
Publication Year: 1984

14/6/4 (Item 1 from file: 81)
48979
Towards the Clean Car Engine
March 1, 1986

14/6/5 (Item 1 from file: 103)
04373238 KR-99-000061; EDB-99-009602
Title: Studies of valve lifter for automotive heavy duty diesel engine by

File 16:Gale Group PROMT(R) 1990-2004/Apr 28
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2004/Apr 28
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Apr 27
File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Apr 28
File 635:Business Dateline(R) 1985-2004/Apr 27
File 636:Gale Group Newsletter DB(TM) 1987-2004/Apr 28
File 15:ABI/Inform(R) 1971-2004/Apr 27
File 553:Wilson Bus. Abs. FullText 1982-2004/Apr
File 624:McGraw-Hill Publications 1985-2004/Apr 27
File 9:Business & Industry(R) Jul/1994-2004/Apr 27
File 481:DELPHEs Eur Bus 95-2004/Apr W2
File 587:Jane's Defense&Aerospace 2004/Apr W4
File 20:Dialog Global Reporter 1997-2004/Apr 28

Set	Items	Description
S1	221608	VALVE OR VALVES
S2	1501010	ENGINE? ?
S3	28479	INTERNAL() COMBUSTION() ENGINE? ?
S4	11495	AIR() COMPRESSOR? ?
S5	438761	ROTOR? ? OR ROTARY OR ROTAT?
S6	144424	RECIPRO? OR AXIAL?
S7	257	BALLNUT? ? OR BALL()NUT? ?
S8	18	CAMLESS() VALVE? ?
S9	4722	BALL() SCREW? ? OR BALLSCREW? ?
S10	1710	ENGINE() CYLINDER? ?
S11	257746	LINEAR? OR LINEAL?
S12	213	S5(7N)S11(S)S1 NOT S6
S13	8	S12(S)S2:S4
S14	7	RD (unique items)
S15	6	S2:S4 (S)S8
S16	6	RD (unique items)

14/6/3 (Item 2 from file: 160)
00645358
RFF Engineering has introduced Autosteer pneumatic steering mechanism for trucks and buses that offers reduced power consumption and substantial weight savings.
May, 1981

14/6/4 (Item 1 from file: 148)
07595859 SUPPLIER NUMBER: 15919267 (USE FORMAT 7 OR 9 FOR FULL TEXT)
PRNDL-box 4T60E. (Hydra-matic 4T60E electronic automobile transaxle)
Nov, 1994
WORD COUNT: 1866 LINE COUNT: 00147

14/6/5 (Item 2 from file: 148)
02029690 SUPPLIER NUMBER: 03077008 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Drives and drive controls. (1984 Productivity Reference Issue and Buyer's Guide)
Jan, 1984
WORD COUNT: 3743 LINE COUNT: 00317

14/6/6 (Item 1 from file: 15)
00628500 92-43440 **USE FORMAT 9 FOR FULL TEXT**
Velocity Control Goes Digital
Jul 23, 1992 LENGTH: 5 Pages

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427
File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	785449	VALVE OR VALVES
S2	607285	ENGINE? ?
S3	130725	INTERNAL() COMBUSTION() ENGINE? ?
S4	9608	AIR() COMPRESSOR? ?
S5	2016600	ROTOR? ? OR ROTARY OR ROTAT?
S6	663322	RECIPRO? OR AXIAL?
S7	1798	BALLNUT? ? OR BALL()NUT? ?
S8	15	CAMLESS() VALVE? ?
S9	8200	BALL() SCREW? ? OR BALLSCREW? ?
S10	7303	ENGINE() CYLINDER? ?
S11	7029	IC=(F01L-009/04 OR F01L-003/24 OR F16K-031/04)
S12	16515	S1 AND S5 AND S6
S13	19	S7 AND S12
S14	1	S2:S4 AND S13
S15	1565	(S12 AND S3) NOT S14
S16	87787	S5 (7N) S6
S17	4665	S16(S) S1
S18	180	S3(S) S17
S19	9	S11 AND S18
S20	9	S19 NOT S14
S21	683	((S2 OR S4) (S) S17) NOT (S14 OR S19)
S22	16	S11 AND S21
S23	6	S17(S) S7
S24	6	S23 NOT (S20 OR S22)
S25	0	S2:S4 AND S24

14/19,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013697224 **Image available**
WPI Acc No: 2001-181448/200118
XRPX Acc No: N01-129380

Variable valve timing mechanism of IC engine ; has timing drive
assembly in which camshaft and quill shaft are movably connected, and
control assembly which moves quill shaft by ball nut transmission

Patent Assignee: DAIMLERCHRYSLER CORP (DAIM)

Inventor: REGUEIRO J F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6167854	B1	20010102	US 99283019	A	19990401	200118 B

Priority Applications (No Type Date): US 99283019 A 19990401

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6167854	B1	10	F01L-001/344	

Abstract (Basic): US 6167854 B1

NOVELTY - One end of a quill shaft (24) is directly connected to a hollow camshaft (22) through splines (42) and indirectly connected to the hub (34) of a drive gear (20) via helical splines (46), in a timing drive assembly (12). On rotation of a ball nut transmission, a sleeve and quill shaft move axially to the camshaft and helical splines and cause the camshaft to change angular position.

File 348:EUROPEAN PATENTS 1978-2004/Apr W02

File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408

Set	Items	Description
S1	192675	VALVE OR VALVES
S2	115397	ENGINE? ?
S3	37870	INTERNAL() COMBUSTION() ENGINE? ?
S4	5058	AIR() COMPRESSOR? ?
S5	541970	ROTOR? ? OR ROTARY OR ROTAT?
S6	321069	RECIPRO? OR AXIAL?
S7	979	BALLNUT? ? OR BALL() NUT? ?
S8	27	CAMLESS() VALVE? ?
S9	3902	BALL() SCREW? ? OR BALLSCREW? ?
S10	3948	ENGINE() CYLINDER? ?
S11	935	IC=(F01L-009/04 OR F01L-003/24 OR F16K-031/04)
S12	50438	S5(7N) S6
S13	2257	S12(20N) S1
S14	0	S7(S) S14
S15	2	S7(S) S13
S16	0	S2:S4(S) S15
S17	130	S13(S) S3
S18	5	S11 AND S17
S19	379	S13(S) (S2 OR S4) NOT S18
S20	5	S11 AND S19
S21	0	S8(S) S9(S) S10
S22	393398	CONVERT???
S23	232	S22(10N) S5(10N) S6(10N) S1
S24	50	S2:S4(S) S23
S25	50	S24 NOT (S18 OR S20)
S26	0	S7(S) S25
S27	14	S3(S) S23
S28	2	S25 AND S11
S29	2	S28 NOT S27
S30	34	S25 NOT S27:S28

15/6/1 (Item 1 from file: 348)
01432039
Magnetostriuctive sensor

15/6/2 (Item 2 from file: 348)
00793498
Power steering assist

18/3,AB,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01292046

A method for controlling electromagnetic actuators for operating induction
and exhaust valves of internal combustion engines
Verfahren zur Steuerung von elektromagnetischen Aktoren zum Betreiben der
Einlass- und Auslass-Ventile in einer Brennkraftmaschine
Procede de commande d'actionneur electromagnetiques de soupapes d'admission
et d'echappement de moteur a combustion interne

PATENT ASSIGNEE:

MAGNETI MARELLI S.p.A., (710662), Via Griziotti 4, 20145 Milano, (IT),
(Applicant designated States: all)

INVENTOR:

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427
File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	785449	VALVE OR VALVES
S2	607285	ENGINE? ?
S3	130725	INTERNAL() COMBUSTION() ENGINE? ?
S4	9608	AIR() COMPRESSOR? ?
S5	2016600	ROTOR? ? OR ROTARY OR ROTAT?
S6	663322	RECIPRO? OR AXIAL?
S7	1798	BALLNUT? ? OR BALL()NUT? ?
S8	15	CAMLESS() VALVE? ?
S9	8200	BALL() SCREW? ? OR BALLSCREW? ?
S10	7303	ENGINE() CYLINDER? ?
S11	352279	LINEAR? OR LINEAL?
S12	410	(S1 AND S2:S4 AND S5 AND S11) NOT S6
S13	698	S5(7N)S11(S)S1
S14	68	S2:S4(S)S13
S15	49	S14 NOT S6
S16	7029	IC=(F01L-009/04 OR F01L-003/24 OR F16K-031/04)
S17	2	S15 AND S16
S18	0	S7(S)S14
S19	0	S7 AND S14
S20	2	S7(S)S13
S21	0	S2:S4 AND S20

17/34/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015350325 **Image available**

WPI Acc No: 2003-411263/200339

Electromagnetic drive unit for valves of internal combustion engine used in motor vehicles, has rotary cam whose contact surfaces have linear portions

Patent Assignee: UNISIA JECS CORP (NIEJ)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003129808	A	20030508	JP 2001323944	A	20011022	200339 B

Priority Applications (No Type Date): JP 2001323944 A 20011022

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003129808	A		9	F01L-009/04	

Abstract (Basic): JP 2003129808 A

NOVELTY - Contact surfaces (50,51) of a rotary cam (46) have respective linear portions (50b,50d) and (51b,51d) formed such that the speed of the cam which contacts a follower is fixed, at the linear portions.

USE - For inlet valve and exhaust valve in internal combustion engine of motor vehicle.

ADVANTAGE - Enables complete braking of the inlet valve or exhaust valve, without impacting the valve seat, due to provision of the linear portions in the contact surfaces of the cam. Stabilization of switching operation of the valve is achieved. Since the cam has linear portions, fabrication of the cam is made easy.

DESCRIPTION OF DRAWING(S) - The figure shows the enlarged front

Serial 09/732282

April 28, 2004

File 348:EUROPEAN PATENTS 1978-2004/Apr W02

File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408

Set	Items	Description
S1	192675	VALVE OR VALVES
S2	115397	ENGINE? ?
S3	37870	INTERNAL() COMBUSTION() ENGINE? ?
S4	5058	AIR() COMPRESSOR? ?
S5	541970	ROTOR? ? OR ROTARY OR ROTAT?
S6	321069	RECIPRO? OR AXIAL?
S7	979	BALLNUT? ? OR BALL()NUT? ?
S8	27	CAMLESS() VALVE? ?
S9	3902	BALL() SCREW? ? OR BALLSCREW? ?
S10	3948	ENGINE() CYLINDER? ?
S11	935	IC=(F01L-009/04 OR F01L-003/24 OR F16K-031/04)
S12	361871	LINEAR? OR LINEAL?
S13	460	S5(7N) S12(20N) S1 NOT S6
S14	70	S2:S4(S) S13
S15	2	S11 AND S14
S16	6	S14/TI,DE,AB NOT S15
S17	8	(S1/TI,DE AND S14) NOT S15:S16

15/3,AB,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01228883

METHOD AND DEVICE FOR OPENING AND CLOSING A VALVE OF AN INTERNAL COMBUSTION ENGINE**VERFAHREN UND VORRICHTUNG ZUM OFFNEN UND SCHLIESSEN EINES VENTILS EINES VERBRENNUNGSMOTORS****PROCEDE ET DISPOSITIF POUR OUVRIR ET FERMER UNE SOUPAPE D'UN MOTEUR A COMBUSTION INTERNE**

PATENT ASSIGNEE:

MAHLE Ventiltrieb-GmbH, (2901430), Haldenstr.-7, 70376 Stuttgart, (DE),

(Proprietor designated states: all)

INVENTOR:

ABELE, Marcus, Dekan-Fellhauer-Strasse 9, D-76359 Marxzell-Burbach, (DE)

GLAS, Thomas, Beutelsbacher Strasse 11, D-73630 Remshalden, (DE)

LECHNER, Martin, Im Feldle 24, D-70378 Stuttgart, (DE)

STEINMETZ, Christoph, Wunnensteinstrasse 18/3, D-71634 Ludwigsburg, (DE)

LEGAL REPRESENTATIVE:

Pohle, Reinhard (66243), Mahle GmbH Patentabteilung, Pragstrasse 26-46, 70376 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 1175553 A1 020130 (Basic)

EP 1175553 B1 030730

WO 2000066883 001109

APPLICATION (CC, No, Date): EP 2000922604 000405; WO 2000EP2996 000405

PRIORITY (CC, No, Date): DE 19919734 990430

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: F01L-009/04

NOTE: No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): German; German; German

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200331	416
CLAIMS B	(German)	200331	376